

FILE 'HOME' ENTERED AT 17:36:12 ON 21 DEC 2001

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

0.15

0.15

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 17:36:25 ON 21 DEC 2001
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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STRUCTURE FILE UPDATES: 20 DEC 2001 HIGHEST RN 377724-19-1
DICTIONARY FILE UPDATES: 20 DEC 2001 HIGHEST RN 377724-19-1

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES
for more information. See STNote 27, Searching Properties in the CAS
Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> s dihydrofolic acid
11 DIHYDROFOLIC
5212123 ACID
7693 ACIDS
5217731 ACID
(ACID OR ACIDS)
L1 11 DIHYDROFOLIC ACID
(DIHYDROFOLIC(W)ACID)

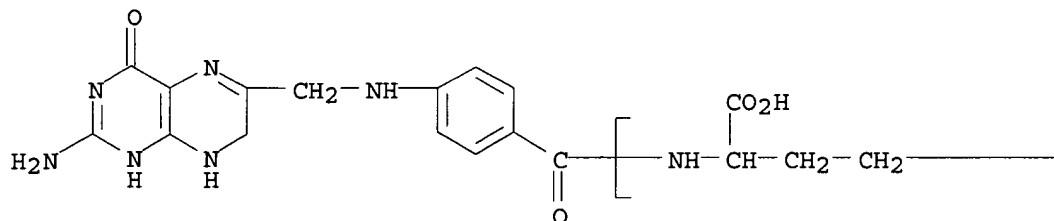
=> d 11 1-11

L1 ANSWER 1 OF 11 REGISTRY COPYRIGHT 2001 ACS
RN 87404-63-5 REGISTRY
CN Poly[imino(1-carboxy-4-oxo-1,4-butanediyl)],
.alpha.-[4-[(2-amino-1,4,7,8-
tetrahydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]-.omega.-hydroxy-,
(S)-
(9CI) (CA INDEX NAME)

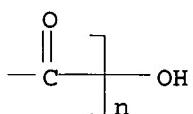
OTHER NAMES:

CN Dihydrofolic acid polyglutamate
MF (C₅ H₇ N O₃)_n C₁₄ H₁₄ N₆ O₃
CI PMS
PCT Polyamine
LC STN Files: CA, CAPLUS, TOXCENTER, TOXLIT

PAGE 1-A



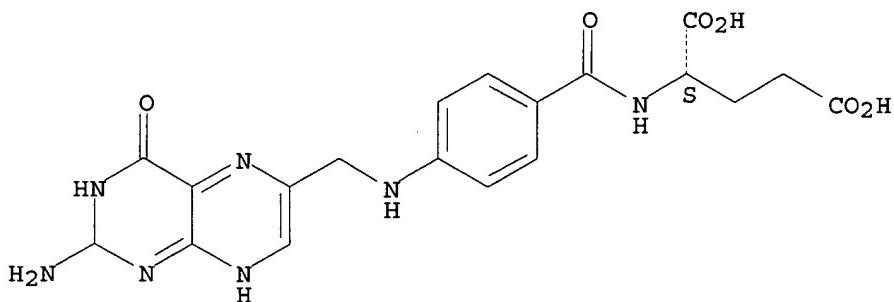
PAGE 1-B



4 REFERENCES IN FILE CA (1967 TO DATE)
4 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L1 ANSWER 2 OF 11 REGISTRY COPYRIGHT 2001 ACS
RN 83961-83-5 REGISTRY
CN L-Glutamic acid, N-[4-[[[2-amino-1,2,3,4-tetrahydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1,2-Dihydrofolic acid
FS STEREOSEARCH
MF C19 H21 N7 O6
LC STN Files: CA, CAPLUS, TOXSLIT

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L1 ANSWER 3 OF 11 REGISTRY COPYRIGHT 2001 ACS
RN 59904-24-4 REGISTRY

CN L-Glutamic acid, N-[4-[(2-amino-1,4,5,8-tetrahydro-5-methyl-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Glutamic acid, N-[p-[(2-aminodihydro-4-hydroxy-5-methyl-6-pteridinyl)methyl]amino]benzoyl]- (7CI)

OTHER NAMES:

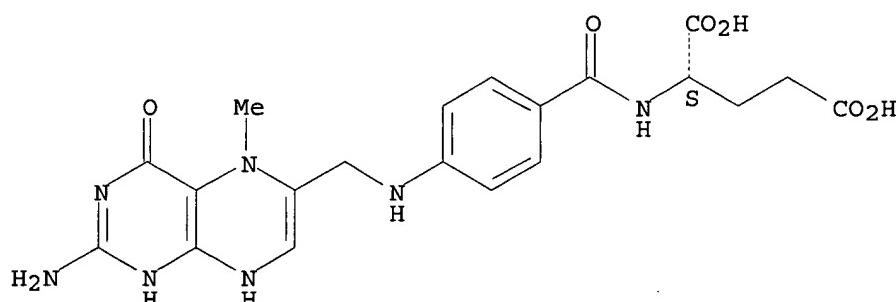
CN 5-Methyl-5,8-dihydrofolic acid

FS STEREOSEARCH

MF C20 H23 N7 O6

LC STN Files: CA, CAOLD, CAPLUS, MEDLINE, TOXLIT

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4 REFERENCES IN FILE CA (1967 TO DATE)

4 REFERENCES IN FILE CAPLUS (1967 TO DATE)

2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L1 ANSWER 4 OF 11 REGISTRY COPYRIGHT 2001 ACS

RN 59299-76-2 REGISTRY

CN L-Glutamic acid, N-[4-[(2-amino-1,4,5,6,7,8-hexahydro-5-methyl-4-oxo-6-pteridinyl)methyl]amino]benzoyl]-, didehydro deriv. (9CI) (CA INDEX NAME)

OTHER NAMES:

CN N5-Methyldihydrofolic acid

FS STEREOSEARCH

MF C20 H23 N7 O6

CI IDS

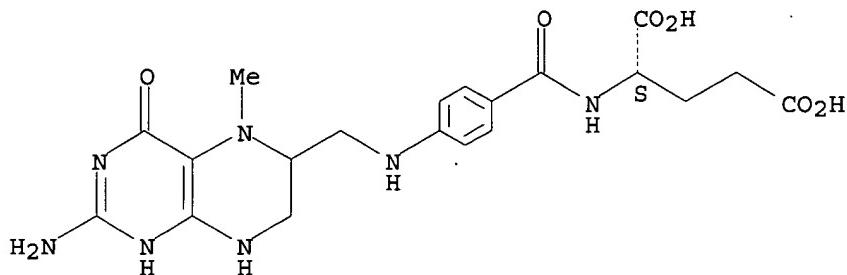
LC STN Files: CA, CAPLUS

CM 1

CRN 134-35-0

CMF C20 H25 N7 O6

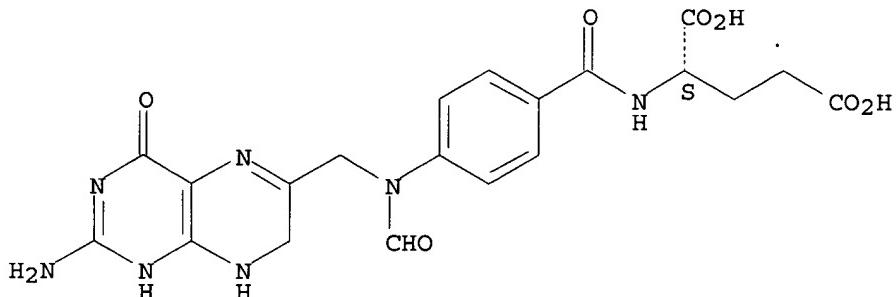
Absolute stereochemistry.



5 REFERENCES IN FILE CA (1967 TO DATE)
 5 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L1 ANSWER 5 OF 11 REGISTRY COPYRIGHT 2001 ACS
 RN 28459-40-7 REGISTRY
 CN L-Glutamic acid, N-[4-[(2-amino-1,4,7,8-tetrahydro-4-oxo-6-pteridinyl)methyl]formylamino]benzoyl]- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Glutamic acid, N-[p-[N-[(2-amino-7,8-dihydro-4-hydroxy-6-pteridinyl)methyl]formamido]benzoyl]- (8CI)
 OTHER NAMES:
 CN **N-Formyl-7,8-dihydrofolic acid**
 FS STEREOSEARCH
 MF C20 H21 N7 O7
 CI COM
 LC STN Files: BEILSTEIN*, CA, CANCERLIT, CAPLUS, MEDLINE, TOXCENTER,
 TOXLIT, USPATFULL
 (*File contains numerically searchable property data)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

8 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 8 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L1 ANSWER 6 OF 11 REGISTRY COPYRIGHT 2001 ACS
 RN 25377-55-3 REGISTRY
 CN L-Glutamic acid, N-[4-[(2-amino-1,4,?,?-tetrahydro-4-oxo-6-pteridinyl)methyl]formylamino]benzoyl]- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Glutamic acid, N-[p-[N-[(2-aminodihydro-4-hydroxy-6-pteridinyl)methyl]formamido]benzoyl]-, L- (8CI)

OTHER NAMES:

CN 10-Formylhydrofolic acid

CN N10-Formylhydrofolic acid

FS STEREOSEARCH

DR 35-76-7

MF C20 H21 N7 O7

CI IDS

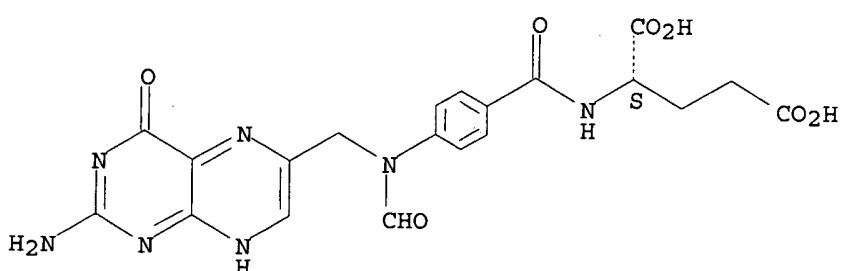
LC STN Files: AGRICOLA, BIOSIS, CA, CAPLUS, DDFU, DRUGU, NIOSHTIC,
TOXCENTER, TOXLIT

CM 1

CRN 134-05-4

CMF C20 H19 N7 O7

Absolute stereochemistry.



22 REFERENCES IN FILE CA (1967 TO DATE)

22 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L1 ANSWER 7 OF 11 REGISTRY COPYRIGHT 2001 ACS

RN 17138-86-2 REGISTRY

CN Glutamic acid, N-[p-[(2-amino-7,8-dihydro-4-hydroxy-7-methyl-6-pteridinyl)methyl]amino]benzoyl]-, L- (8CI) (CA INDEX NAME)

OTHER NAMES:

CN 7-Methyl-7,8-dihydrofolic acid

CN C7-Methyldihydrofolic acid

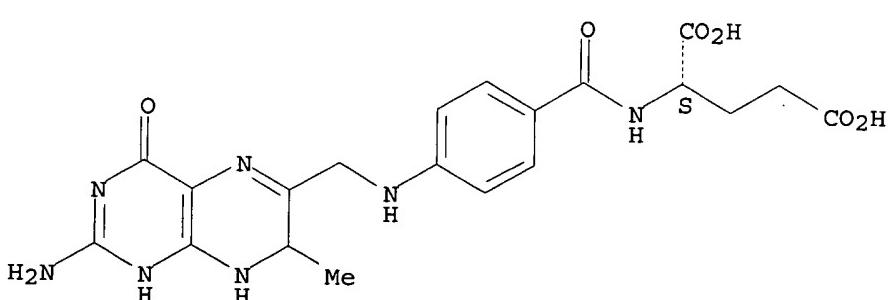
FS STEREOSEARCH

MF C20 H23 N7 O6

LC STN Files: BEILSTEIN*, CA, CAPLUS, TOXLIT

(*File contains numerically searchable property data)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1967 TO DATE)
3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

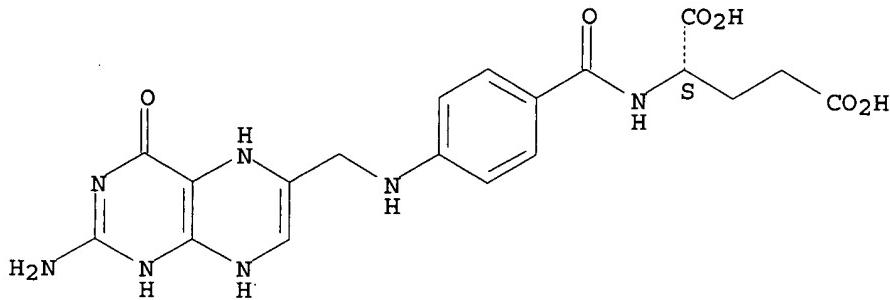
L1 ANSWER 8 OF 11 REGISTRY COPYRIGHT 2001 ACS
RN 9002-03-3 REGISTRY
CN Dehydrogenase, tetrahydrofolate (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 7,8-Dihydrofolate reductase
CN Dihydrofolate dehydrogenase
CN Dihydrofolate reductase
CN **Dihydrofolic acid reductase**
CN Dihydrofolic reductase
CN Dihydropteroylglutamate reductase
CN E.C. 1.5.1.3
CN E.C. 1.5.1.4
CN Folate reductase
CN Folic acid reductase
CN Folic reductase
CN NADP-dihydrofolate reductase
CN NADPH-dihydrofolate reductase
CN Reductase, dihydrofolate
CN Tetrahydrofolate dehydrogenase
DR 9001-17-6, 9038-35-1
MF Unspecified
CI MAN
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO,
CA, CABA, CAPLUS, CASREACT, CEN, CHEMCATS, CHEMINFORMRX, CIN, EMBASE,
IFICDB, IFIPAT, IFIUDB, PROMT, TOXCENTER, TOXLIT, USPATFULL

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

4287 REFERENCES IN FILE CA (1967 TO DATE)
309 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
4291 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L1 ANSWER 9 OF 11 REGISTRY COPYRIGHT 2001 ACS
RN 4033-31-2 REGISTRY
CN L-Glutamic acid, N-[4-[(2-amino-1,4,5,8-tetrahydro-4-oxo-6-
pteridinyl)methyl]amino]benzoyl] - (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Glutamic acid, N-[p-[(2-amino-5,8-dihydro-4-hydroxy-6-
pteridinyl)methyl]amino]benzoyl] - (7CI, 8CI)
OTHER NAMES:
CN **5,8-Dihydrofolic acid**
FS STEREOSEARCH
MF C19 H21 N7 O6
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, TOXLIT
(*File contains numerically searchable property data)

Absolute stereochemistry.

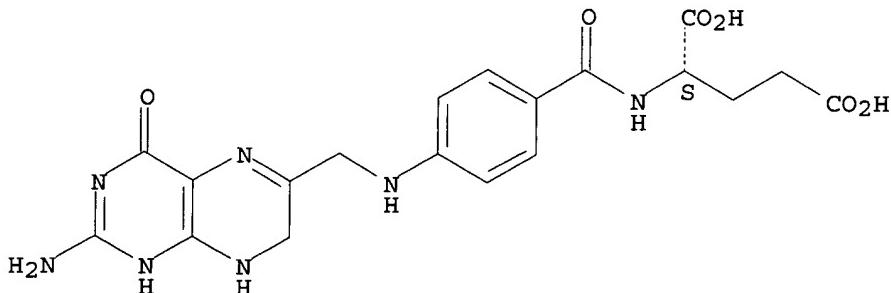


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1967 TO DATE)
 3 REFERENCES IN FILE CAPLUS (1967 TO DATE)
 2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L1 ANSWER 10 OF 11 REGISTRY COPYRIGHT 2001 ACS
 RN 4033-27-6 REGISTRY
 CN L-Glutamic acid, N-[4-[(2-amino-1,4,7,8-tetrahydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Glutamic acid, N-[p-[(2-amino-7,8-dihydro-4-hydroxy-6-pteridinyl)methyl]amino]benzoyl]-, L- (6CI, 7CI, 8CI)
 OTHER NAMES:
 CN 7,8-Dihydro-L-folic acid
 CN 7,8-Dihydrofolic acid
 CN Dihydrofolic acid
 FS STEREOSEARCH
 MF C19 H21 N7 O6
 CI COM
 LC STN Files: ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CANCERLIT,
 CAOLD, CAPLUS, CHEMCATS, DDFU, DRUGU, MEDLINE, TOXCENTER, TOXLIT,
 USPATFULL
 (*File contains numerically searchable property data)

Absolute stereochemistry.



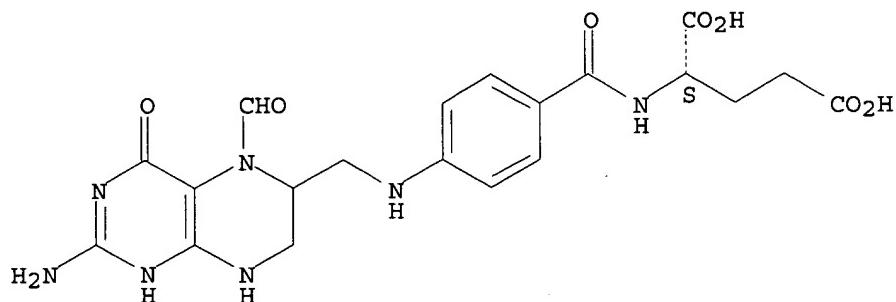
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

549 REFERENCES IN FILE CA (1967 TO DATE)

23 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 549 REFERENCES IN FILE CAPLUS (1967 TO DATE)
 23 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L1 ANSWER 11 OF 11 REGISTRY COPYRIGHT 2001 ACS
 RN 58-05-9 REGISTRY
 CN L-Glutamic acid, N-[4-[(2-amino-5-formyl-1,4,5,6,7,8-hexahydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Glutamic acid, N-[p-[(2-amino-5-formyl-5,6,7,8-tetrahydro-4-hydroxy-6-pteridinyl)methyl]amino]benzoyl]-, L- (8CI)
 OTHER NAMES:
 CN **10-Formyl-7,8-dihydrofolic acid**
 CN 5-Formyl-5,6,7,8-tetrahydrofolic acid
 CN 5-Formyltetrahydrofolic acid
 CN 5-Formyltetrahydropteroylglutamic acid
 CN Folinic acid
 CN Folinic acid-SF
 CN l-Leucovorin
 CN Leucal
 CN Leucovorin
 CN Levoleucovorin
 CN N5-Formyl-5,6,7,8-tetrahydrofolic acid
 CN N5-Formyltetrahydrofolic acid
 CN Welcovorin
 FS STEREOSEARCH
 DR 641-41-8, 121521-95-7, 17435-36-8, 3102-53-2, 33299-78-4, 34786-59-9,
 40244-99-3
 MF C20 H23 N7 O7
 CI COM
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS,
 BIOSIS,
 BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB,
 CHEMCATS,
 CHEMLIST, CIN, CSCHEM, DDFU, DIOGENES, DRUGU, EMBASE, HODOC*, HSDB*,
 IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PHARMASEARCH,
 PROMT,
 TOXCENTER, TOXLIT, USAN, USPATFULL, VETU
 (*File contains numerically searchable property data)
 Other Sources: EINECS**
 (**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

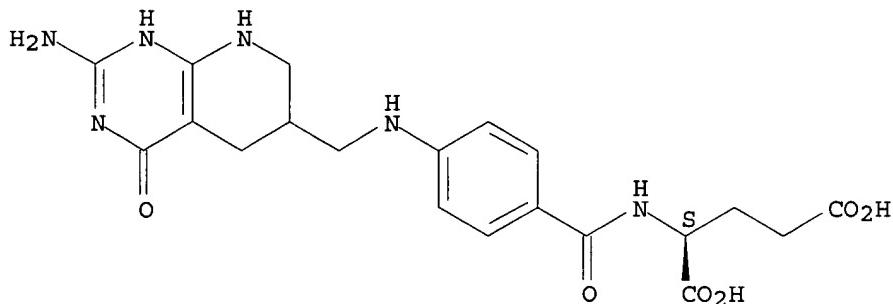
1629 REFERENCES IN FILE CA (1967 TO DATE)
36 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1634 REFERENCES IN FILE CAPLUS (1967 TO DATE)
10 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> s tetrahydrofolic acid
43 TETRAHYDROFOLIC
5212123 ACID
7693 ACIDS
5217731 ACID
(ACID OR ACIDS)
L2 38 TETRAHYDROFOLIC ACID
(TETRAHYDROFOLIC (W) ACID)

=> d 12 1-38

L2 ANSWER 1 OF 38 REGISTRY COPYRIGHT 2001 ACS
RN 115499-24-6 REGISTRY
CN L-Glutamic acid, N-[4-[[[(2-amino-1,4,5,6,7,8-hexahydro-4-oxopyrido[2,3-d]pyrimidin-6-yl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Pyrido[2,3-d]pyrimidine, L-glutamic acid deriv.
OTHER NAMES:
CN 5-Deazatetrahydrofolic acid
FS STEREOSEARCH
MF C20 H24 N6 O6
SR CA
LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, TOXLIT, USPATFULL

Absolute stereochemistry.



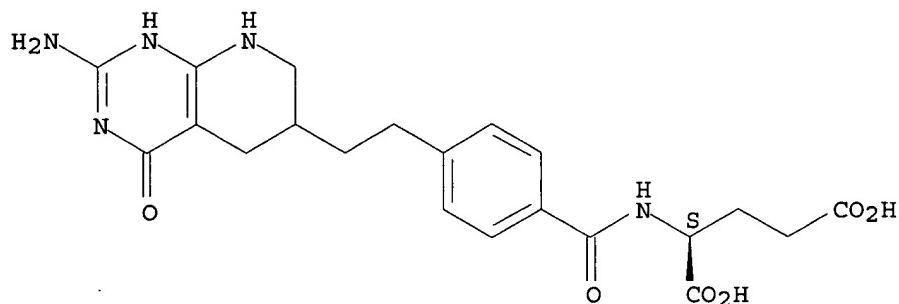
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

11 REFERENCES IN FILE CA (1967 TO DATE)
4 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
11 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 2 OF 38 REGISTRY COPYRIGHT 2001 ACS
RN 95693-76-8 REGISTRY
CN L-Glutamic acid, N-[4-[[2-(2-amino-1,4,5,6,7,8-hexahydro-4-oxopyrido[2,3-d]pyrimidin-6-yl)ethyl]benzoyl]- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Pyrido[2,3-d]pyrimidine, L-glutamic acid deriv.
OTHER NAMES:
CN 5,10-Dideaza-5,6,7,8-tetrahydrofolic acid

CN 5,10-Dideazatetrahydrofolic acid
 CN DATHF
 CN DDATHF
 FS STEREOSEARCH
 DR 116387-29-2
 MF C21 H25 N5 O6
 LC STN Files: ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA,
 CANCERLIT, CAPLUS, CASREACT, DDFU, DRUGU, EMBASE, MEDLINE, PHAR, PROMT,
 RTECS*, TOXCENTER, TOXLIT, USPATFULL
 (*File contains numerically searchable property data)

Absolute stereochemistry.

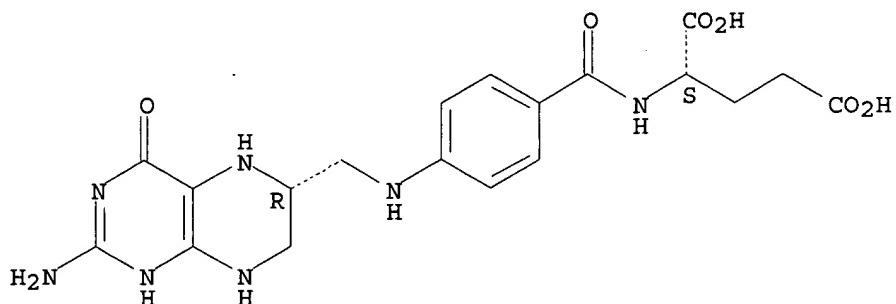


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

86 REFERENCES IN FILE CA (1967 TO DATE)
 15 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 86 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 3 OF 38 REGISTRY COPYRIGHT 2001 ACS
 RN 74708-38-6 REGISTRY
 CN L-Glutamic acid, N-[4-[[[(6R)-2-amino-1,4,5,6,7,8-hexahydro-4-oxo-6-pteridinyl]methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN L-Glutamic acid, N-[4-[[2-amino-1,4,5,6,7,8-hexahydro-4-oxo-6-pteridinyl]methyl]amino]benzoyl]-, (R)-
 OTHER NAMES:
 CN (6R)-Tetrahydrofolic acid
 FS STEREOSEARCH
 MF C19 H23 N7 O6
 CI COM
 LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL
 (*File contains numerically searchable property data)

Absolute stereochemistry.

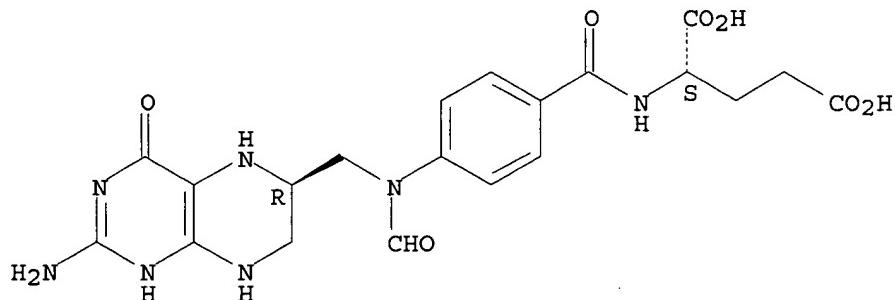


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

15 REFERENCES IN FILE CA (1967 TO DATE)
 15 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 4 OF 38 REGISTRY COPYRIGHT 2001 ACS
 RN 74644-66-9 REGISTRY
 CN L-Glutamic acid, N-[4-[(6R)-2-amino-1,4,5,6,7,8-hexahydro-4-oxo-6-pteridinyl]methyl]formylamino]benzoyl]- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN L-Glutamic acid, N-[4-[(2-amino-1,4,5,6,7,8-hexahydro-4-oxo-6-pteridinyl)methyl]formylamino]benzoyl]-, (R)-
 OTHER NAMES:
 CN (6R)-10-Formyl-5,6,7,8-tetrahydrofolic acid
 CN (6R)-10-Formyltetrahydrofolic acid
 FS STEREOSEARCH
 MF C20 H23 N7 O7
 CI COM
 LC STN Files: BEILSTEIN*, CA, CAPLUS, TOXCENTER, TOXLIT, USPATFULL
 (*File contains numerically searchable property data)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

15 REFERENCES IN FILE CA (1967 TO DATE)
 2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 15 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 5 OF 38 REGISTRY COPYRIGHT 2001 ACS
 RN 73951-54-9 REGISTRY
 CN L-Glutamic acid,
 N-[4-[(6R)-2-amino-5-formyl-1,4,5,6,7,8-hexahydro-4-oxo-

6-pteridinyl]methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN L-Glutamic acid, N-[4-[[[(2-amino-5-formyl-1,4,5,6,7,8-hexahydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]-, (R)-

OTHER NAMES:

CN (6R)-5-Formyl-5,6,7,8-tetrahydrofolic acid

CN (6R)-Folinic acid

CN (6R)-Leucovorin

FS STEREOSEARCH

DR 137643-04-0

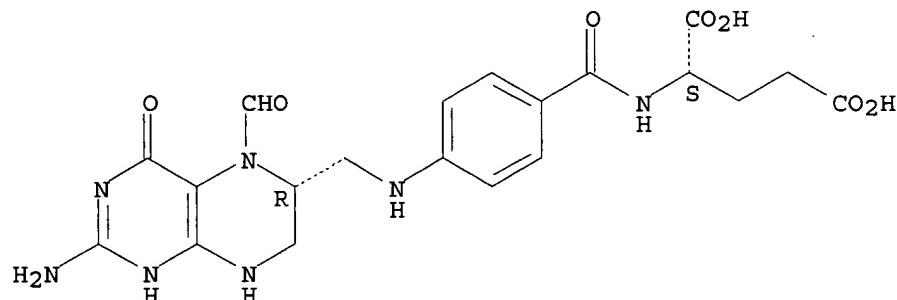
MF C20 H23 N7 O7

CI COM

LC STN Files: BEILSTEIN*, BIOSIS, CA, CAPLUS, CASREACT, TOXCENTER, TOXLIT,
USPATFULL

(*File contains numerically searchable property data)

Absolute stereochemistry. Rotation (+).



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

64 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

64 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 6 OF 38 REGISTRY COPYRIGHT 2001 ACS

RN 71963-69-4 REGISTRY

CN L-Glutamic acid, N-[4-[[[(6S)-2-amino-1,4,5,6,7,8-hexahydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN L-Glutamic acid, N-[4-[[[(2-amino-1,4,5,6,7,8-hexahydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]-, (S)-

OTHER NAMES:

CN (6S)-5,6,7,8-Tetrahydrofolic acid

CN (6S)-Tetrahydrofolic acid

FS STEREOSEARCH

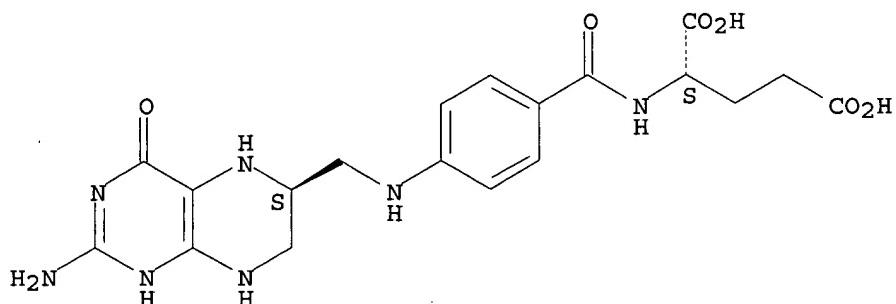
MF C19 H23 N7 O6

CI COM

LC STN Files: BEILSTEIN*, BIOSIS, CA, CAPLUS, CASREACT, TOXCENTER, TOXLIT,
USPATFULL

(*File contains numerically searchable property data)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

54 REFERENCES IN FILE CA (1967 TO DATE)

2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

54 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 7 OF 38 REGISTRY COPYRIGHT 2001 ACS

RN 68538-85-2 REGISTRY

CN L-Glutamic acid,

N-[4-[(6S)-2-amino-5-formyl-1,4,5,6,7,8-hexahydro-4-oxo-6-pteridinyl]methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN L-Glutamic acid, N-[4-[(2-amino-5-formyl-1,4,5,6,7,8-hexahydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]-, (S)-

OTHER NAMES:

CN (6S)-5-Formyl-5,6,7,8-tetrahydrofolic acid

CN (6S)-Folinic acid

CN (6S)-Leucovorin

CN (S)-Leucovorin

CN Citrovorum factor

CN L-Folinic acid

CN LFP 754

FS STEREOSEARCH

DR 121451-09-0

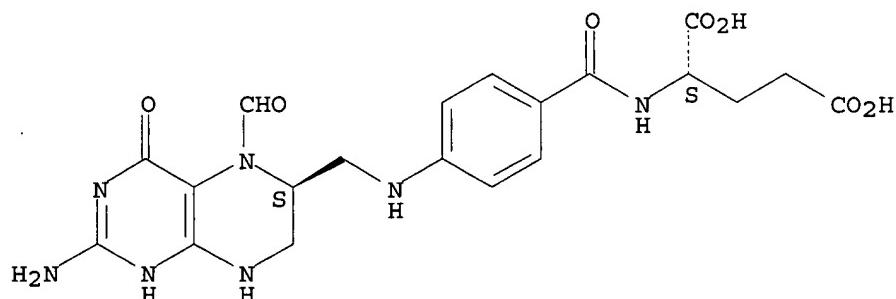
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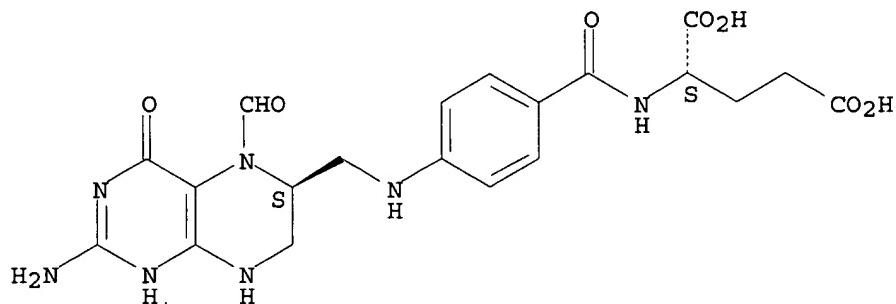
CI COM

LC STN Files: ADISNEWS, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CAPLUS, CASREACT, DDFU, DRUGPAT, DRUGU, EMBASE, MEDLINE, PROMT, TOXCENTER, TOXLIT, USPATFULL

(*File contains numerically searchable property data)

Absolute stereochemistry. Rotation (-).





PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

135 REFERENCES IN FILE CA (1967 TO DATE)

5 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

135 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 8 OF 38 REGISTRY COPYRIGHT 2001 ACS

RN 60672-18-6 REGISTRY

CN L-Glutamic acid, N-[4-[(2-amino-1,4,5,6,7,8-hexahydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]-, sodium salt (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Sodium tetrahydrofolic acid

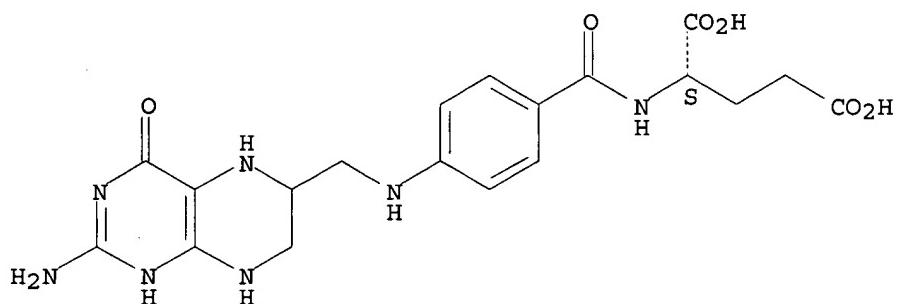
FS STEREOSEARCH

MF C19 H23 N7 O6 . x Na

LC STN Files: CA, CAPLUS

CRN (135-16-0)

Absolute stereochemistry.



● x Na

2 REFERENCES IN FILE CA (1967 TO DATE)

2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 9 OF 38 REGISTRY COPYRIGHT 2001 ACS

RN 55038-70-5 REGISTRY

CN L-Glutamic acid, N-[4-[(2-amino-1,4,5,6,7,8-hexahydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]-, dihydrochloride (9CI) (CA INDEX NAME)

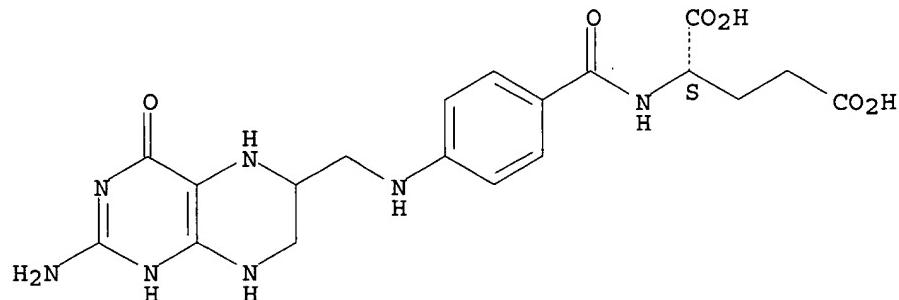
OTHER NAMES:

CN Tetrahydrofolic acid dihydrochloride

FS STEREOSEARCH

MF C19 H23 N7 O6 . 2 Cl H
LC STN Files: CA, CAPLUS
CRN (135-16-0)

Absolute stereochemistry.

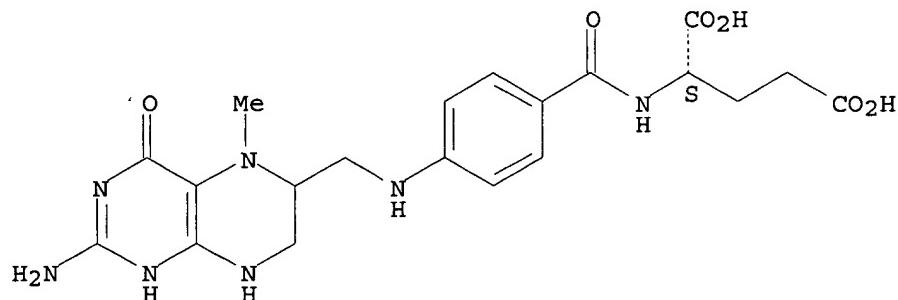


●2 HCl

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 10 OF 38 REGISTRY COPYRIGHT 2001 ACS
RN 51759-13-8 REGISTRY
CN L-Glutamic acid, N-[4-[(2-amino-1,4,5,6,7,8-hexahydro-5-methyl-4-oxo-6-pteridinyl)methyl]amino]benzoyl-, sodium salt (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 5-Methyltetrahydrofolic acid sodium salt
CN Sodium N5-methyltetrahydrofolate
FS STEREOSEARCH
MF C20 H25 N7 O6 . x Na
LC STN Files: CA, CAPLUS, TOXCENTER, TOXLIT, USPATFULL
CRN (134-35-0)

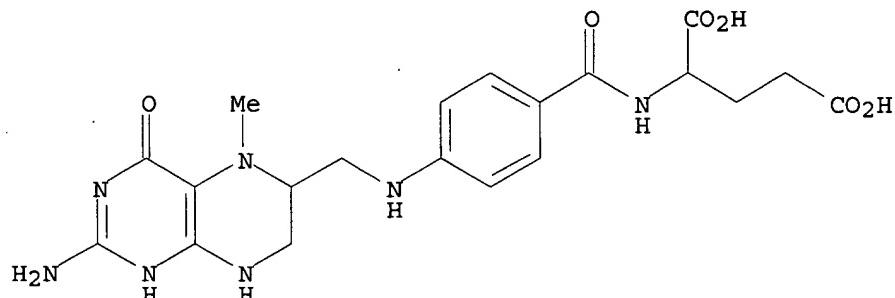
Absolute stereochemistry.



●x Na

4 REFERENCES IN FILE CA (1967 TO DATE)
4 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 11 OF 38 REGISTRY COPYRIGHT 2001 ACS
RN 39605-23-7 REGISTRY
CN Glutamic acid, N-[4-[(2-amino-1,4,5,6,7,8-hexahydro-5-methyl-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN DL-Glutamic acid, N-[4-[(2-amino-1,4,5,6,7,8-hexahydro-5-methyl-4-oxo-6-pteridinyl)methyl]amino]benzoyl]-
OTHER NAMES:
CN DL-5-Methyltetrahydrofolic acid
CN dl-5-Methyltetrahydrofolic acid
CN DL-5-Methyltetrahydropteroylglutamic acid
CN DL-N5-Methyltetrahydrofolic acid
MF C20 H25 N7 O6
CI COM
LC STN Files: BEILSTEIN*, CA, CAPLUS, TOXCENTER, TOXLIT, USPATFULL
(*File contains numerically searchable property data)

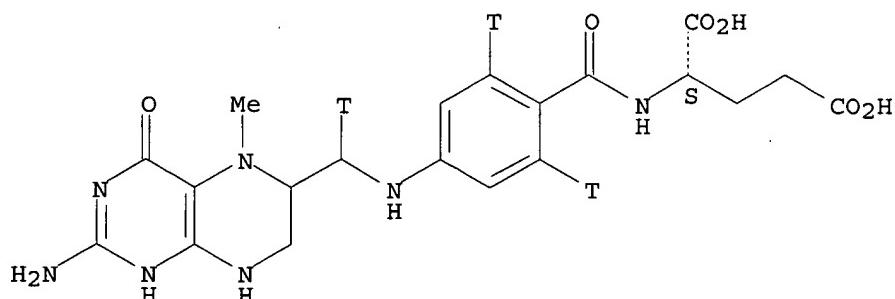


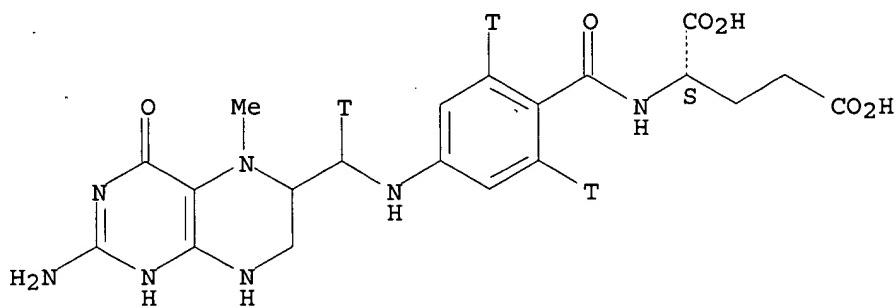
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

17 REFERENCES IN FILE CA (1967 TO DATE)
17 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 12 OF 38 REGISTRY COPYRIGHT 2001 ACS
RN 34418-06-9 REGISTRY
CN Glutamic acid, N-[p-[(2-amino-5,6,7,8-tetrahydro-4-hydroxy-5-methyl-6-pteridinyl)methyl-t]amino]benzoyl-2,6-t2]-, L- (8CI) (CA INDEX NAME)
OTHER NAMES:
CN 5-Methyltetrahydrofolic acid-9,3',5'-3H
FS STEREOSEARCH
MF C20 H22 N7 O6 T3
LC STN Files: CA, CAPLUS

Absolute stereochemistry.

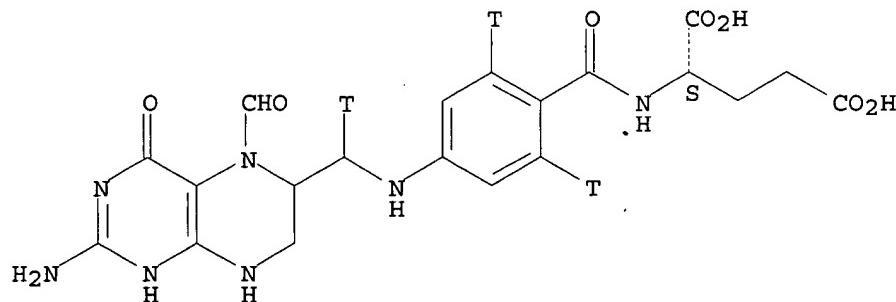




1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 13 OF 38 REGISTRY COPYRIGHT 2001 ACS
 RN 34096-52-1 REGISTRY
 CN Glutamic acid, N-[p-[(2-amino-5-formyl-5,6,7,8-tetrahydro-4-hydroxy-6-pteridinyl)methyl-t]amino]benzoyl-2,6-t2]-, L- (8CI) (CA INDEX NAME)
 OTHER NAMES:
 CN 5-Formyltetrahydrofolic acid-9,3',5'-3H
 FS STEREOSEARCH
 MF C20 H20 N7 O7 T3
 LC STN Files: CA, CAPLUS

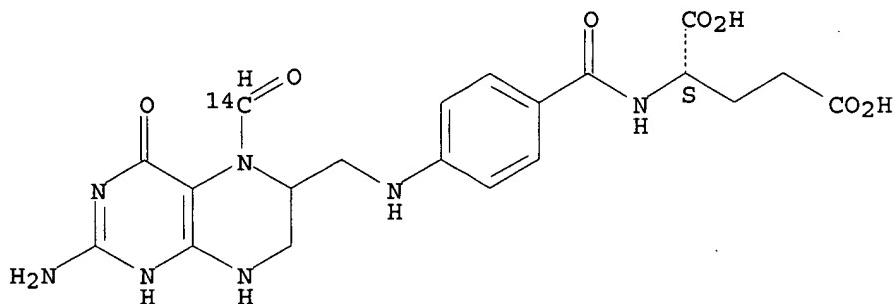
Absolute stereochemistry.



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 14 OF 38 REGISTRY COPYRIGHT 2001 ACS
 RN 34096-51-0 REGISTRY
 CN L-Glutamic acid, N-[4-[(2-amino-5-(formyl-14C)-1,5,6,7-tetrahydro-4-hydroxy-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Glutamic acid,
 N-[p-[(2-amino-5-formyl-14C-1,5,6,7-tetrahydro-4-hydroxy-6-pteridinyl)methyl]amino]benzoyl]-, L- (8CI)
 OTHER NAMES:
 CN 5-Formyl-14C-tetrahydrofolic acid
 FS STEREOSEARCH
 MF C20 H23 N7 O7
 LC STN Files: CA, CAPLUS

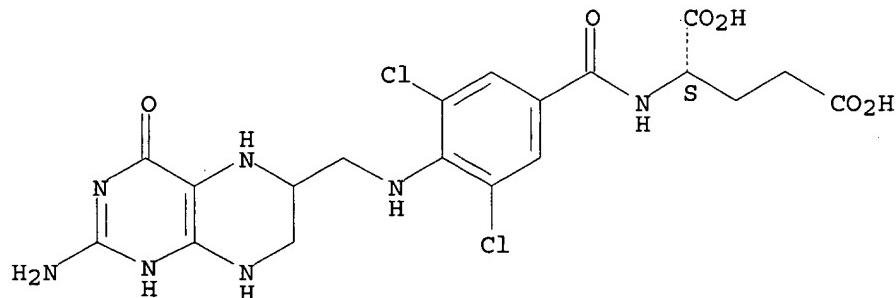
Absolute stereochemistry.



2 REFERENCES IN FILE CA (1967 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 15 OF 38 REGISTRY COPYRIGHT 2001 ACS
 RN 32447-51-1 REGISTRY
 CN Glutamic acid, N-[4-[(2-amino-5,6,7,8-tetrahydro-4-hydroxy-6-pteridinyl)methyl]amino]-3,5-dichlorobenzoyl-, L- (8CI) (CA INDEX NAME)
 OTHER NAMES:
 CN 3',5'-Dichlorotetrahydrofolic acid
 FS STEREOSEARCH
 MF C19 H21 Cl2 N7 O6
 LC STN Files: CA, CAPLUS, TOXCENTER

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

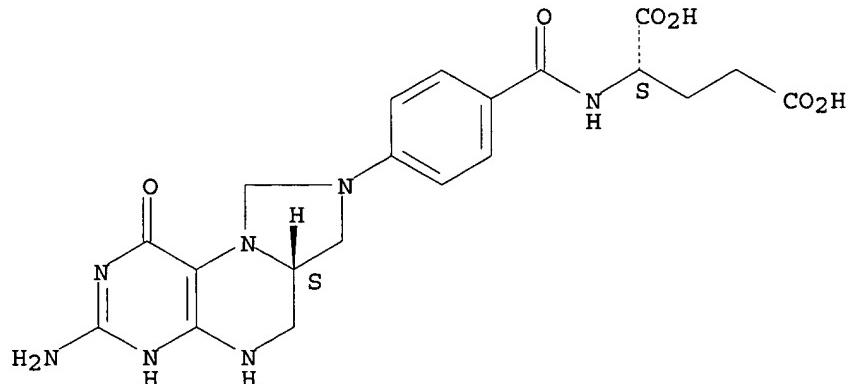
L2 ANSWER 16 OF 38 REGISTRY COPYRIGHT 2001 ACS
 RN 31690-12-7 REGISTRY
 CN L-Glutamic acid, N-[4-(3-amino-1,2,5,6,6a,7-hexahydro-1-oxoimidazo[1,5-f]pteridin-8(9H)-yl)benzoyl]-, (S)- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Glutamic acid, N-[p-(3-amino-5,6,6a,7-tetrahydro-1-hydroxyimidazo[1,5-f]pteridin-8(9H)-yl)benzoyl]-, L-(-)- (8CI)
 CN Imidazo[1,5-f]pteridine, L-glutamic acid deriv.
 OTHER NAMES:
 CN L-(-)-Methylenetetrahydrofolic acid
 CN 1-N5,N10-Methylene-L-tetrahydrofolic acid
 FS STEREOSEARCH
 DR 51372-95-3, 52746-46-0

MF C20 H23 N7 O6

CI COM

LC STN Files: BEILSTEIN*, CA, CAPLUS, TOXCENTER, TOXLIT, USPATFULL
(*File contains numerically searchable property data)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

13 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

13 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 17 OF 38 REGISTRY COPYRIGHT 2001 ACS

RN 31690-11-6 REGISTRY

CN L-Glutamic acid, N-[4-[(6aR)-3-amino-1,2,5,6,6a,7-hexahydro-1-oxoimidazo[1,5-f]pteridin-8(9H)-yl]benzoyl]- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Glutamic acid, N-[p-(3-amino-5,6,6a,7-tetrahydro-1-hydroxyimidazo[1,5-f]pteridin-8(9H)-yl)benzoyl]-, L-(+)- (8CI)

CN L-Glutamic acid, N-[4-(3-amino-1,2,5,6,6a,7-hexahydro-1-oxoimidazo[1,5-f]pteridin-8(9H)-yl)benzoyl]-, (R)-

OTHER NAMES:

CN (6R)-5,10-Methylene-5,6,7,8-tetrahydrofolic acid

CN (6R)-5,10-Methylenetetrahydrofolate

CN d-N5,N10-Methylene-L-tetrahydrofolic acid

CN L-(+)-Methylenetetrahydrofolic acid

FS STEREOSEARCH

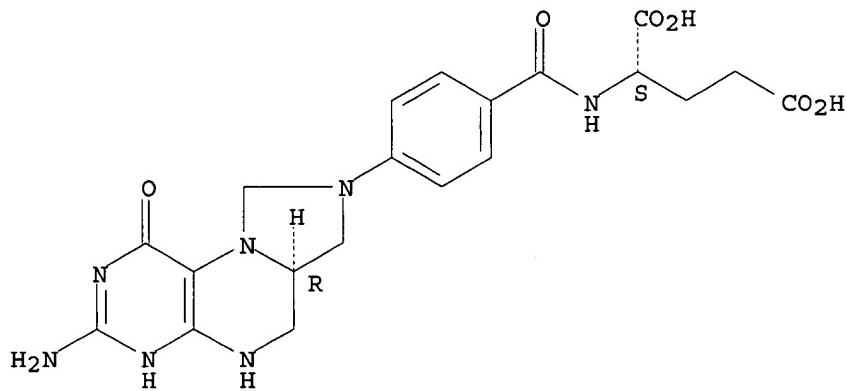
DR 1596-87-8, 14357-00-7, 20302-77-6, 51353-86-7, 52746-47-1

MF C20 H23 N7 O6

CI COM

LC STN Files: BEILSTEIN*, CA, CAPLUS, TOXCENTER, TOXLIT, USPATFULL
(*File contains numerically searchable property data)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

48 REFERENCES IN FILE CA (1967 TO DATE)

4 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

48 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 18 OF 38 REGISTRY COPYRIGHT 2001 ACS

RN 31690-09-2 REGISTRY

CN L-Glutamic acid,

N-[4-[(6S)-2-amino-1,4,5,6,7,8-hexahydro-5-methyl-4-oxo-6-pteridinyl]methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Glutamic acid, N-[p-[(2-amino-5,6,7,8-tetrahydro-4-hydroxy-5-methyl-6-pteridinyl)methyl]amino]benzoyl]-, L-(-)- (8CI)

CN L-Glutamic acid, N-[4-[(2-amino-1,4,5,6,7,8-hexahydro-5-methyl-4-oxo-6-pteridinyl)methyl]amino]benzoyl]-, (S)-

OTHER NAMES:

CN (6S)-5-Methyltetrahydrofolic acid

CN 1-N5-Methyl-L-tetrahydrofolic acid

FS STEREOSEARCH

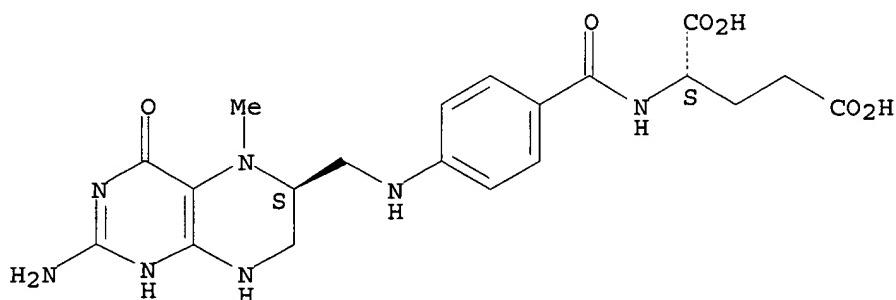
DR 150950-03-1

MF C20 H25 N7 O6

CI COM

LC STN Files: BEILSTEIN*, CA, CAPLUS, IPA, TOXCENTER, TOXLIT, USPATFULL
(*File contains numerically searchable property data)

Absolute stereochemistry.

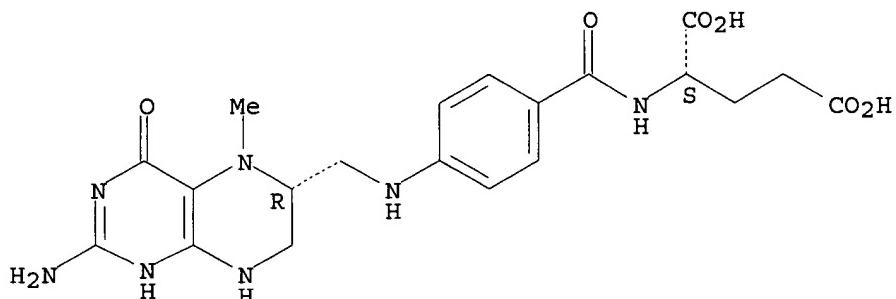


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

45 REFERENCES IN FILE CA (1967 TO DATE)
3 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
45 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 19 OF 38 REGISTRY COPYRIGHT 2001 ACS
RN 31690-08-1 REGISTRY
CN L-Glutamic acid,
N-[4-[[[(6R)-2-amino-1,4,5,6,7,8-hexahydro-5-methyl-4-oxo-
6-pteridinyl]methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Glutamic acid, N-[p-[[2-amino-5,6,7,8-tetrahydro-4-hydroxy-5-methyl-6-
pteridinyl]methyl]amino]benzoyl]-, L-(+)- (8CI)
CN L-Glutamic acid, N-[4-[[2-amino-1,4,5,6,7,8-hexahydro-5-methyl-4-oxo-6-
pteridinyl]methyl]amino]benzoyl]-, (R)-
OTHER NAMES:
CN d-N5-Methyl-L-tetrahydrofolic acid
FS STEREOSEARCH
MF C20 H25 N7 O6
CI COM
LC STN Files: BEILSTEIN*, CA, CAPLUS, TOXCENTER, TOXLIT, USPATFULL
(*File contains numerically searchable property data)

Absolute stereochemistry.

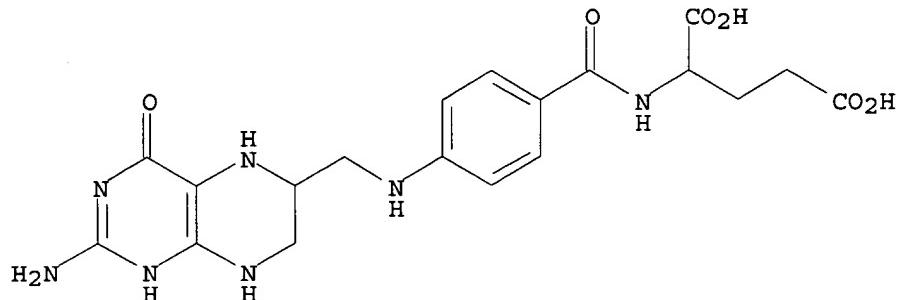


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

25 REFERENCES IN FILE CA (1967 TO DATE)
25 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 20 OF 38 REGISTRY COPYRIGHT 2001 ACS
RN 29347-89-5 REGISTRY
CN Glutamic acid, N-[4-[[2-amino-1,4,5,6,7,8-hexahydro-4-oxo-6-
pteridinyl]methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN DL-Glutamic acid, N-[4-[[2-amino-1,4,5,6,7,8-hexahydro-4-oxo-6-
pteridinyl]methyl]amino]benzoyl]-
CN Glutamic acid, N-[p-[[2-amino-5,6,7,8-tetrahydro-4-hydroxy-6-
pteridinyl]methyl]amino]benzoyl]-, DL- (8CI)
OTHER NAMES:
CN DL-5,6,7,8-Tetrahydrofolic acid
MF C19 H23 N7 O6
LC STN Files: BEILSTEIN*, CA, CANCERLIT, CAPLUS, MEDLINE, TOXCENTER,
TOXLIT, USPATFULL

(*File contains numerically searchable property data)

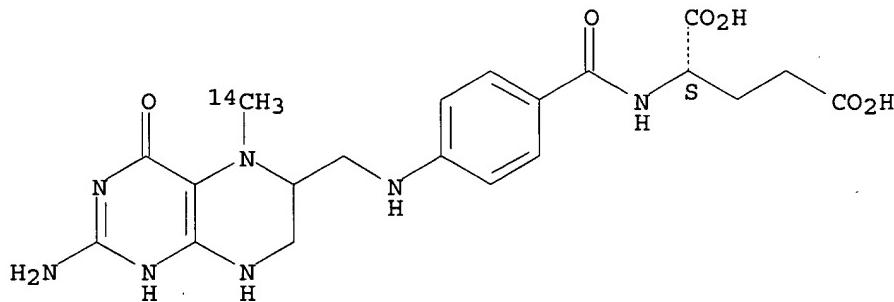


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

6 REFERENCES IN FILE CA (1967 TO DATE)
6 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 21 OF 38 REGISTRY COPYRIGHT 2001 ACS
RN 25630-71-1 REGISTRY
CN L-Glutamic acid, N-[4-[[[2-amino-1,4,5,6,7,8-hexahydro-5-(methyl-14C)-4-oxo-6-pteridinyl]methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Glutamic acid,
N-[p-[[{(2-amino-5,6,7,8-tetrahydro-4-hydroxy-5-methyl-14C-6-pteridinyl)methyl]amino]benzoyl]-, L- (8CI)
OTHER NAMES:
CN 5-Methyl-14C-tetrahydrofolic acid
FS STEREOSEARCH
MF C20 H25 N7 O6
LC STN Files: BEILSTEIN*, CA, CAPLUS, TOXLIT
(*File contains numerically searchable property data)

Absolute stereochemistry.

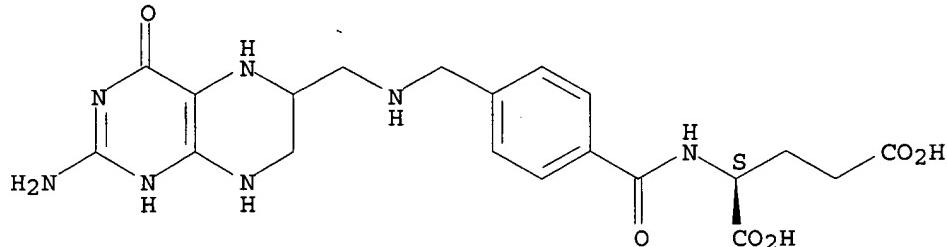


2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 22 OF 38 REGISTRY COPYRIGHT 2001 ACS
RN 24960-29-0 REGISTRY
CN Glutamic acid, N-.[alpha.]-.[[{(2-amino-5,6,7,8-tetrahydro-4-hydroxy-6-pteridinyl)methyl]amino}-p-toluoyl]-, L- (8CI) (CA INDEX NAME)
OTHER NAMES:

CN Isohomotetrahydrofolic acid.
FS STEREOSEARCH
MF C20 H25 N7 O6
LC STN Files: CA, CAPLUS, TOXCENTER

Absolute stereochemistry.

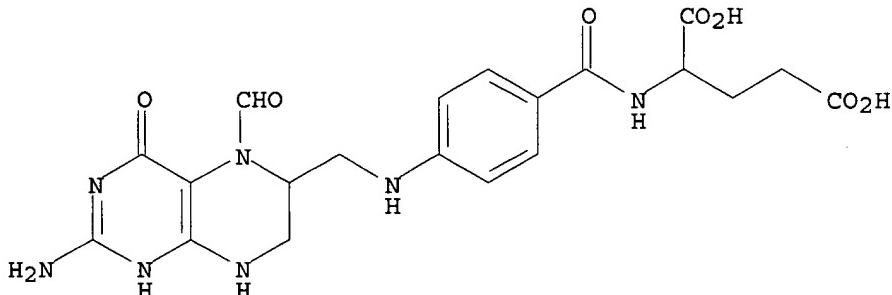


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 23 OF 38 REGISTRY COPYRIGHT 2001 ACS
RN 22350-60-3 REGISTRY
CN Glutamic acid, N-[4-[(2-amino-5-formyl-1,4,5,6,7,8-hexahydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN DL-Glutamic acid, N-[4-[(2-amino-5-formyl-1,4,5,6,7,8-hexahydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]-
CN Glutamic acid, N-[p-[(2-amino-5-formyl-5,6,7,8-tetrahydro-4-hydroxy-6-pteridinyl)methyl]amino]benzoyl]-, DL- (8CI)
OTHER NAMES:
CN dl-Folinic acid
CN DL-N5-Formyltetrahydrofolic acid
FS STEREOSEARCH
MF C20 H23 N7 O7
LC STN Files: BEILSTEIN*, CA, CAPLUS, IPA, TOXCENTER, TOXLIT, USPATFULL
(*File contains numerically searchable property data)

Currently available stereo shown.



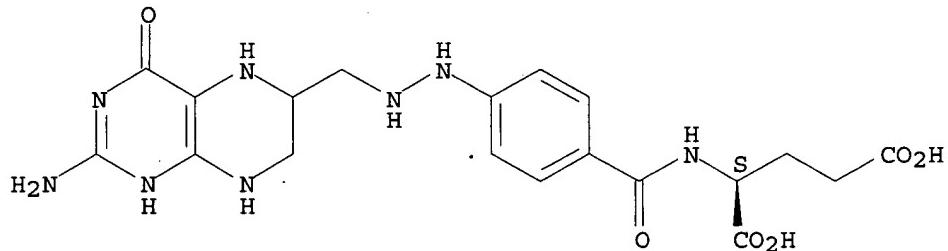
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

27 REFERENCES IN FILE CA (1967 TO DATE)

27 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 24 OF 38 REGISTRY COPYRIGHT 2001 ACS
 RN 20751-48-8 REGISTRY
 CN L-Glutamic acid, N-[4-[(2-amino-1,4,5,6,7,8-hexahydro-4-oxo-6-pteridinyl)methyl]hydrazino]benzoyl]- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Glutamic acid, N-[p-[(2-amino-5,6,7,8-tetrahydro-4-hydroxy-6-pteridinyl)methyl]hydrazino]benzoyl]-, L- (8CI)
 OTHER NAMES:
 CN Azahomotetrahydrofolic acid
 FS STEREOSEARCH
 DR 22465-49-2
 MF C19 H24 N8 O6
 LC STN Files: BEILSTEIN*, CA, CAPLUS, TOXCENTER, TOXLIT
 (*File contains numerically searchable property data)

Absolute stereochemistry.

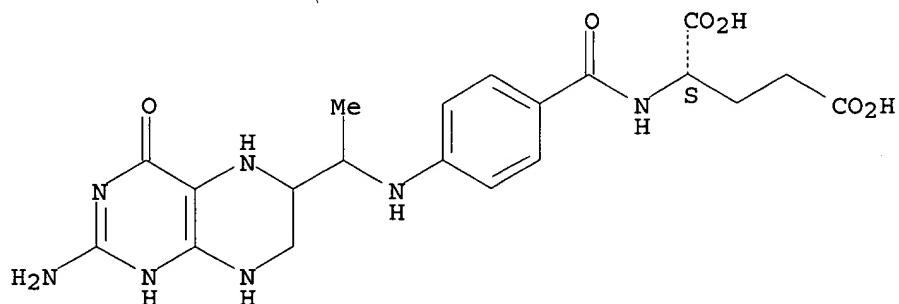


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1967 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 25 OF 38 REGISTRY COPYRIGHT 2001 ACS
 RN 17863-76-2 REGISTRY
 CN L-Glutamic acid, N-[4-[(1-(2-amino-1,4,5,6,7,8-hexahydro-4-oxo-6-pteridinyl)ethyl)amino]benzoyl]- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Glutamic acid, N-[p-[(1-(2-amino-5,6,7,8-tetrahydro-4-hydroxy-6-pteridinyl)ethyl)amino]benzoyl]-, L- (8CI)
 OTHER NAMES:
 CN C9-Methyltetrahydrofolic acid
 FS STEREOSEARCH
 MF C20 H25 N7 O6
 LC STN Files: CA, CAPLUS, TOXCENTER, TOXLIT

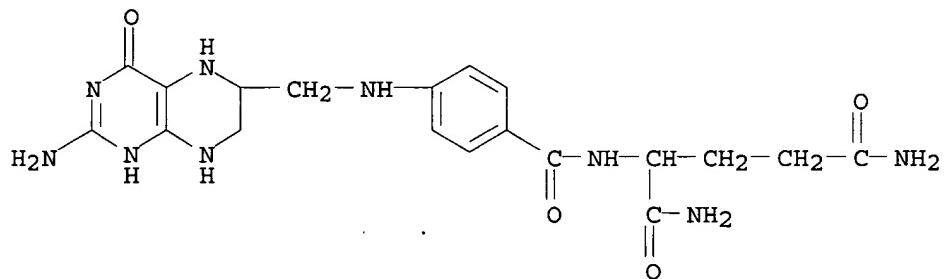
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5 REFERENCES IN FILE CA (1967 TO DATE)
5 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 26 OF 38 REGISTRY COPYRIGHT 2001 ACS
RN 17435-37-9 REGISTRY
CN Glutaramide, 2-[[p-[(2-amino-5,6,7,8-tetrahydro-4-hydroxy-6-pteridinyl)methyl]amino]benzamido]- (8CI) (CA INDEX NAME)
OTHER NAMES:
CN Tetrahydrofolic acid diamide
FS 3D CONCORD
MF C19 H25 N9 O4
LC STN Files: CA, CAPLUS, TOXLIT

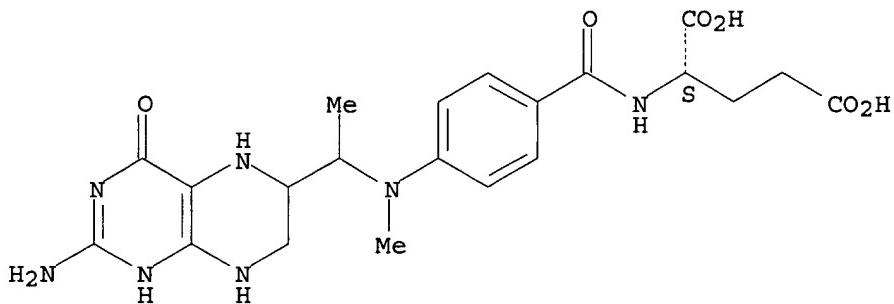


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 27 OF 38 REGISTRY COPYRIGHT 2001 ACS
RN 17435-34-6 REGISTRY
CN Glutamic acid, N-[[p-[(1-(2-amino-5,6,7,8-tetrahydro-4-hydroxy-6-pteridinyl)ethyl)methylamino]benzoyl]-, L- (8CI) (CA INDEX NAME)
OTHER NAMES:
CN C9,N10-Dimethyltetrahydrofolic acid
FS STEREOSEARCH
DR 27452-64-8
MF C21 H27 N7 O6
LC STN Files: CA, CAPLUS, TOXLIT

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 28 OF 38 REGISTRY COPYRIGHT 2001 ACS

RN 17087-21-7 REGISTRY

CN Glutamic acid, N-[p-[(2-amino-5,6,7,8-tetrahydro-4-hydroxy-7-methyl-6-pteridinyl)methyl]amino]benzoyl-, L- (8CI) (CA INDEX NAME)

OTHER NAMES:

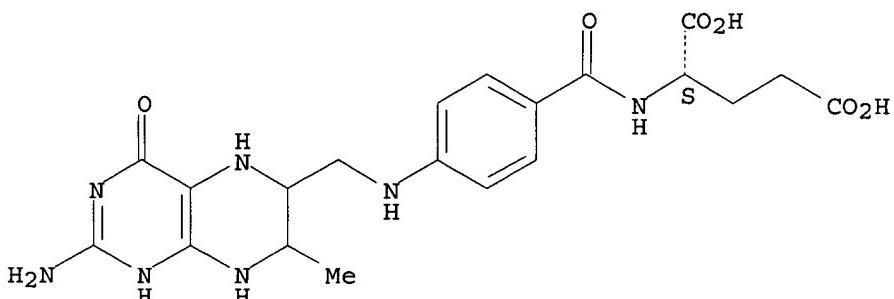
CN C7-Methyltetrahydrofolic acid

FS STEREOSEARCH

MF C20 H25 N7 O6

LC STN Files: BEILSTEIN*, CA, CAPLUS, TOXCENTER, TOXLIT
 (*File contains numerically searchable property data)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1967 TO DATE)
 3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 29 OF 38 REGISTRY COPYRIGHT 2001 ACS

RN 10360-12-0 REGISTRY

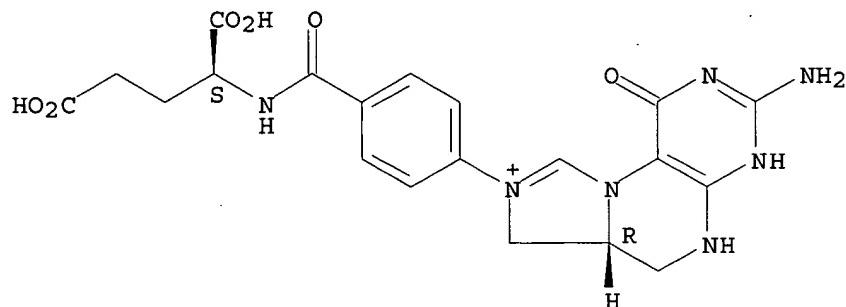
CN Imidazo[1,5-f]pteridinium, 3-amino-8-[4-[[[(1S)-1,3-dicarboxypropyl]amino]carbonyl]phenyl]-1,2,5,6,6a,7-hexahydro-1-oxo-, (6aR)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Imidazo[1,5-f]pteridinium, 3-amino-8-[4-[[[(1,3-dicarboxypropyl)amino]carbonyl]phenyl]-1,2,5,6,6a,7-hexahydro-1-oxo-

CN Imidazo[1,5-f]pteridinium, 3-amino-8-[p-[(1,3-dicarboxypropyl)carbamoyl]phenyl]-5,6,6a,7-tetrahydro-1-hydroxy- (8CI)
 OTHER NAMES:
 CN 5,10-Methenyltetrahydrofolic acid
 CN Folic acid, tetrahydro-N9,N10-methylidyne-
 CN N5,N10-Methenyltetrahydrofolic acid
 FS STEREOSEARCH
 DR 16531-85-4, 102274-60-2, 65981-92-2, 73611-11-7, 88830-88-0, 40245-00-9,
 49553-77-7
 MF C20 H22 N7 O6
 CI COM
 LC STN Files: AGRICOLA, CA, CAPLUS, TOXCENTER, TOXLIT, USPATFULL

Absolute stereochemistry.



75 REFERENCES IN FILE CA (1967 TO DATE)
 5 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 77 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 30 OF 38 REGISTRY COPYRIGHT 2001 ACS
 RN 9028-69-7 REGISTRY
 CN Reductase, methylenetetrahydrofolate (reduced riboflavin adenine dinucleotide) (9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN 5,10-Methylenetetrahydrofolate reductase
 CN 5,10-Methylenetetrahydrofolate reductase (FADH2)
 CN 5,10-Methylenetetrahydropteroylglutamate reductase
 CN E.C. 1.1.1.68
 CN E.C. 1.1.99.15
 CN E.C. 1.7.99.5
 CN Methylenetetrahydrofolate reductase
 CN **Methylenetetrahydrofolic acid reductase**
 CN N5,10-Methylenetetrahydrofolate reductase
 CN N5,N10-Methylenetetrahydrofolate reductase
 MF Unspecified
 CI MAN
 LC STN Files: ADISNEWS, AGRICOLA, BIOSIS, BIOTECHNO, CA, CABA, CAPLUS, CIN,
 EMBASE, PROMT, TOXCENTER, TOXLIT, USPATFULL

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
 210 REFERENCES IN FILE CA (1967 TO DATE)
 210 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 31 OF 38 REGISTRY COPYRIGHT 2001 ACS

RN 7444-29-3 REGISTRY

CN Imidazo[1,5-f]pteridinium, 3-amino-8-[4-[[[(1S)-1,3-dicarboxypropyl]amino]carbonyl]phenyl]-1,2,5,6,6a,7-hexahydro-1-oxo-, inner salt, (6aR)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1H-Imidazo[1,5-f]pteridin-10-i um, 3-amino-8-[p-[(1,3-dicarboxypropyl)carbamoyl]phenyl]-2,5,6,6a,7,8-hexahydro-1-oxo-, hydroxide, inner salt (8CI)

CN 3-Amino-8-[p-[(1,3-dicarboxypropyl)carbamoyl]phenyl]-1,2,5,6,6a,7-hexahydro-1-oxo-8H-imidazo[1,5-f]pteridin-10-i um hydroxide, inner salt (7CI)

CN 3-Amino-8-[p-[(L-1,3-dicarboxypropyl)carbamoyl]phenyl]-1,2,5,6,6a,7-hexahydro-1-oxo-8H-imidazo[1,5-f]pteridin-10-i um hydroxide, inner salt (6CI)

CN Imidazo[1,5-f]pteridinium, 3-amino-8-[4-[[[(1,3-dicarboxypropyl)amino]carbonyl]phenyl]-1,2,5,6,6a,7-hexahydro-1-oxo-, inner salt, [R-(R*,S*)]-

OTHER NAMES:

CN Anhydroleucovorin

CN Anhydroleucovorin A

CN Leucovorin A, anhydro-

CN Leucovorin, anhydro-

CN Methenyltetrahydrofolic acid

FS STEREOSEARCH

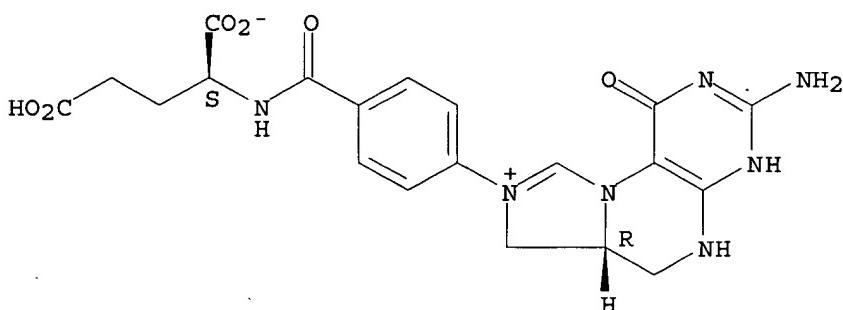
DR 6799-70-8, 1276-89-7, 25061-99-8, 74742-49-7, 26723-85-3, 28187-07-7,
100406-30-2

MF C20 H21 N7 O6

CI COM

LC STN Files: BEILSTEIN*, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS,
EMBASE, MEDLINE, TOXCENTER, TOXLIT, USPATFULL
(*File contains numerically searchable property data)

Absolute stereochemistry. Rotation (+).



24 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

24 REFERENCES IN FILE CAPLUS (1967 TO DATE)

22 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 32 OF 38 REGISTRY COPYRIGHT 2001 ACS

RN 4349-39-7 REGISTRY

CN L-Glutamic acid, N-[4-[[[(2-amino-1,4,5,6,7,8-hexahydro-4-oxo-6-pteridinyl)methyl]methylamino]benzoyl]- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Glutamic acid, N-[p-[[[(2-amino-5,6,7,8-tetrahydro-4-hydroxy-6-pteridinyl)methyl]methylamino]benzoyl]- (6CI, 7CI)

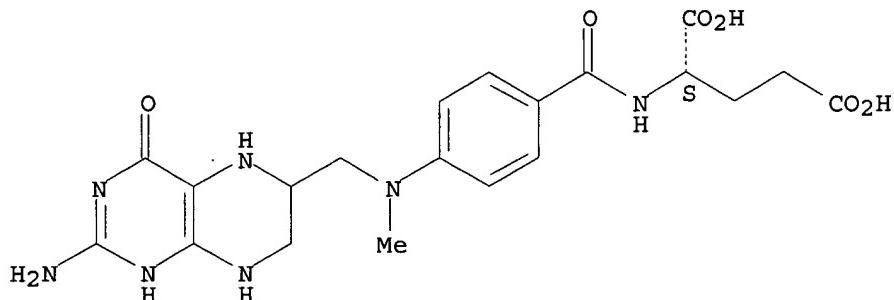
CN Glutamic acid, N-[p-[[[(2-amino-5,6,7,8-tetrahydro-4-hydroxy-6-

pteridinyl)methyl]methylamino]benzoyl]-, L- (8CI)

OTHER NAMES:

CN 10-Methyltetrahydrofolic acid
CN N10-Methyltetrahydrofolic acid
FS STEREOSEARCH
DR 14231-39-1
MF C20 H25 N7 O6
CI COM
LC STN Files: CA, CAOLD, CAPLUS, TOXCENTER, TOXLIT

Absolute stereochemistry.

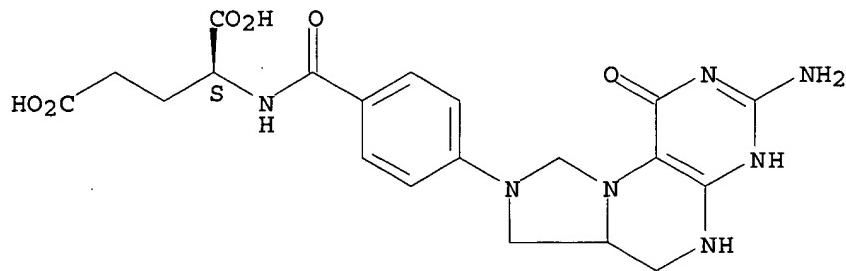


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

10 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
10 REFERENCES IN FILE CAPLUS (1967 TO DATE)
3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 33 OF 38 REGISTRY COPYRIGHT 2001 ACS
RN 3432-99-3 REGISTRY
CN L-Glutamic acid, N-[4-(3-amino-1,2,5,6,6a,7-hexahydro-1-oxoimidazo[1,5-f]pteridin-8(9H)-yl)benzoyl]- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Glutamic acid, N-[p-(3-amino-5,6,6a,7-tetrahydro-1-hydroxyimidazo[1,5-f]pteridin-8(9H)-yl)benzoyl]-, L- (8CI)
CN Imidazo[1,5-f]pteridine, L-glutamic acid deriv.
OTHER NAMES:
CN (+)-5,10-Methylene-5,6,7,8-tetrahydrofolic acid
CN 5,10-Methylene-5,6,7,8-tetrahydrofolic acid
CN 5,10-Methylenetetrahydrofolic acid
CN Folic acid, tetrahydro-N5,N10-methylene-
CN N5,N10-Methylene-5,6,7,8-tetrahydrofolic acid
CN N5,N10-Methylenetetrahydrofolic acid
CN N5,N10-Methylenetetrahydopteroylglutamic acid
FS STEREOSEARCH
DR 14948-92-6, 23284-08-4, 39939-22-5, 42578-82-5
MF C20 H23 N7 O6
CI COM
LC STN Files: AGRICOLA, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, DDFU, DRUGU, EMBASE, MEDLINE, TOXCENTER, TOXLIT, USPATFULL
(*File contains numerically searchable property data)

Absolute stereochemistry.

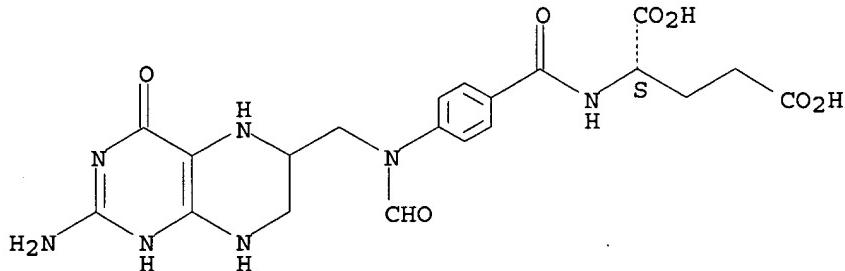


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

431 REFERENCES IN FILE CA (1967 TO DATE)
 51 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 433 REFERENCES IN FILE CAPLUS (1967 TO DATE)
 9 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 34 OF 38 REGISTRY COPYRIGHT 2001 ACS
 RN 2800-34-2 REGISTRY
 CN L-Glutamic acid, N-[4-[(2-amino-1,4,5,6,7,8-hexahydro-4-oxo-6-pteridinyl)methyl]formylamino]benzoyl]- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Glutamic acid, N-[p-[N-[(2-amino-5,6,7,8-tetrahydro-4-hydroxy-6-pteridinyl)methyl]formamido]benzoyl]- (7CI)
 CN Glutamic acid, N-[p-[N-[(2-amino-5,6,7,8-tetrahydro-4-hydroxy-6-pteridinyl)methyl]formamido]benzoyl]-, L- (8CI)
 OTHER NAMES:
 CN **10-Formyl-5,6,7,8-tetrahydrofolic acid**
 CN 10-Formyltetrahydrofolate
 CN **10-Formyltetrahydrofolic acid**
 CN 10-Formyltetrahydropteroylglutamic acid
 CN **N10-Formyl-5,6,7,8-tetrahydrofolic acid**
 CN N10-Formyltetrahydrofolate
 CN **N10-Formyltetrahydrofolic acid**
 CN N10-Formyltetrahydropteroylglutamate
 FS STEREOSEARCH
 DR 18656-95-6
 MF C20 H23 N7 O7
 CI COM
 LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA,
 CANCERLIT, CAOLD, CAPLUS, DDFU, DRUGU, EMBASE, MEDLINE, NIOSHTIC,
 TOXCENTER, TOXLIT, USPATFULL
 (*File contains numerically searchable property data)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

270 REFERENCES IN FILE CA (1967 TO DATE)
 5 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 272 REFERENCES IN FILE CAPLUS (1967 TO DATE)
 22 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 35 OF 38 REGISTRY COPYRIGHT 2001 ACS

RN 2311-81-1 REGISTRY

CN L-Glutamic acid, N-[4-[[[2-amino-1,4,5,6,7,8-hexahydro-5-(iminomethyl)-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Glutamic acid,

N-[p-[[2-amino-5-formimidoyl-5,6,7,8-tetrahydro-4-hydroxy-6-pteridinyl)methyl]amino]benzoyl]-, L- (8CI)

CN Glutamic acid,

N-[p-[[2-amino-5-formimidoyl-5,6,7,8-tetrahydro-4-hydroxy-6-pteridinyl)methyl]amino]benzoyl]- (6CI, 7CI)

CN L-Glutamic acid, N-[4-[[2-amino-3,4,5,6,7,8-hexahydro-5-(iminomethyl)-4-oxo-6-pteridinyl)methyl]amino]benzoyl]-

OTHER NAMES:

CN 5-Formiminotetrahydrofolic acid

CN Formiminotetrahydrofolic acid

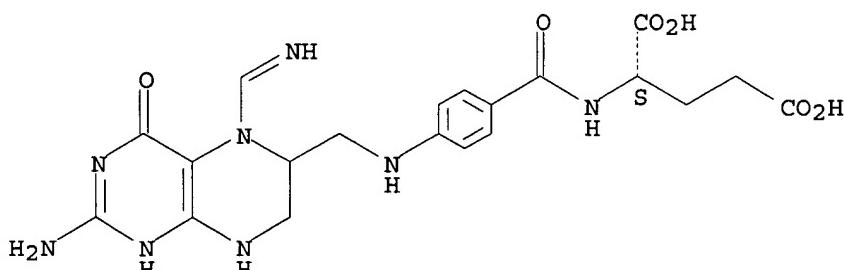
FS STEREOSEARCH

DR 7643-76-7, 42578-83-6

MF C20 H24 N8 O6

LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, TOXCENTER, TOXLIT, USPATFULL
 (*File contains numerically searchable property data)

Absolute stereochemistry.

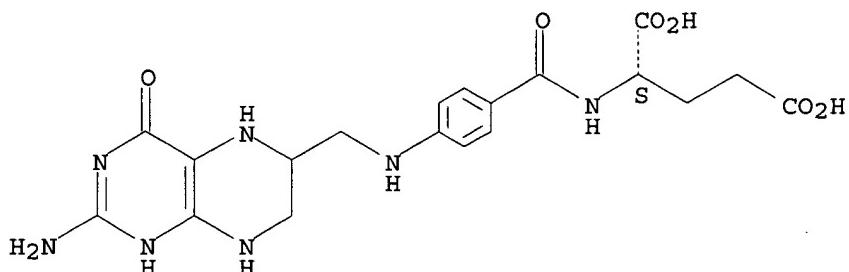


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

13 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
13 REFERENCES IN FILE CAPLUS (1967 TO DATE)
7 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 36 OF 38 REGISTRY COPYRIGHT 2001 ACS
RN 135-16-0 REGISTRY
CN L-Glutamic acid, N-[4-[(2-amino-1,4,5,6,7,8-hexahydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Glutamic acid, N-[p-[(2-amino-3,4,5,6,7,8-hexahydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]-, L- (7CI, 8CI)
OTHER NAMES:
CN (-)-L-5,6,7,8-Tetrahydrofolic acid
CN 5,6,7,8-Tetrahydrofolic acid
CN L-5,6,7,8-Tetrahydrofolic acid
CN Tetrahydrofolic acid
CN Tetrahydropteroylglutamic acid
CN THFA
FS STEREOSEARCH
DR 60201-89-0, 18632-03-6, 14231-42-6, 15582-27-1, 4172-42-3
MF C19 H23 N7 O6
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS,
BIOSIS,
BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, CIN,
CSCHEM,
DDFU, DRUGU, EMBASE, IPA, MSDS-OHS, PIRA, PROMT, RTECS*, TOXCENTER,
TOXLIT, USPATFULL, VETU
(*File contains numerically searchable property data)
Other Sources: EINECS**
(**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

826 REFERENCES IN FILE CA (1967 TO DATE)
63 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
829 REFERENCES IN FILE CAPLUS (1967 TO DATE)
3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 37 OF 38 REGISTRY COPYRIGHT 2001 ACS
RN 134-35-0 REGISTRY

CN L-Glutamic acid, N-[4-[(2-amino-1,4,5,6,7,8-hexahydro-5-methyl-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Glutamic acid, N-[p-[(2-amino-5,6,7,8-tetrahydro-4-hydroxy-5-methyl-6-pteridinyl)methyl]amino]benzoyl]-, L- (8CI)

CN Glutamic acid, N-[p-[(2-amino-5,6,7,8-tetrahydro-4-hydroxy-5-methyl-6-pteridinyl)methyl]amino]benzoyl]- (6CI)

OTHER NAMES:

CN **5-Methyl-5,6,7,8-tetrahydrofolic acid**

CN 5-Methyl-5,6,7,8-tetrahydropteroyl-L-glutamic acid

CN **5-Methyltetrahydrofolic acid**

CN 5-Methyltetrahydropteroyl monoglutamate

CN 5-Methyltetrahydropteroylglutamic acid

CN N-Methyltetrahydrofolate

CN **N-Methyltetrahydrofolic acid**

CN N5-Methyltetrahydrofolate

CN **N5-Methyltetrahydrofolic acid**

CN N5-Methyltetrahydropteroylglutamate

CN Prefolic A

FS STEREOSEARCH

DR 3922-58-5, 76937-22-9

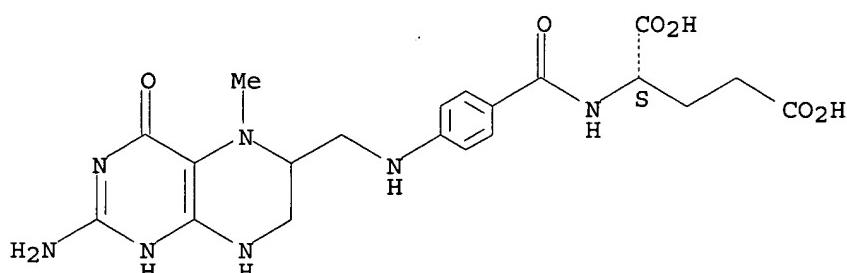
MF C20 H25 N7 O6

CI COM

LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS,
BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CIN, DDFU, DRUGU,
EMBASE, IPA, MEDLINE, NIOSHTIC, PROMT, TOXCENTER, TOXLIT, USPATFULL,
VETU

(*File contains numerically searchable property data)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

995 REFERENCES IN FILE CA (1967 TO DATE)

21 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

999 REFERENCES IN FILE CAPLUS (1967 TO DATE)

16 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 38 OF 38 REGISTRY COPYRIGHT 2001 ACS

RN 58-05-9 REGISTRY

CN L-Glutamic acid, N-[4-[(2-amino-5-formyl-1,4,5,6,7,8-hexahydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

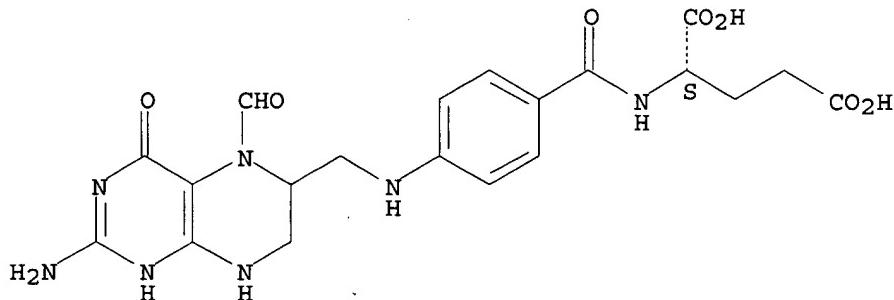
CN Glutamic acid, N-[p-[(2-amino-5-formyl-5,6,7,8-tetrahydro-4-hydroxy-6-pteridinyl)methyl]amino]benzoyl]-, L- (8CI)

OTHER NAMES:

CN 10-Formyl-7,8-dihydrofolic acid

CN 5-Formyl-5,6,7,8-tetrahydrofolic acid
 CN 5-Formyltetrahydrofolic acid
 CN 5-Formyltetrahydropteroylglutamic acid
 CN Folinic acid
 CN Folinic acid-SF
 CN 1-Leucovorin
 CN Leucal
 CN Leucovorin
 CN Levoleucovorin
 CN N5-Formyl-5,6,7,8-tetrahydrofolic acid
 CN N5-Formyltetrahydrofolic acid
 CN Welcovorin
 FS STEREOSEARCH
 DR 641-41-8, 121521-95-7, 17435-36-8, 3102-53-2, 33299-78-4, 34786-59-9,
 40244-99-3
 MF C20 H23 N7 O7
 CI COM
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS,
 BIOSIS,
 BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB,
 CHEMCATS,
 CHEMLIST, CIN, CSCHEM, DDFU, DIOGENES, DRUGU, EMBASE, HODOC*, HSDB*,
 IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PHARMASEARCH,
 PROMT,
 TOXCENTER, TOXLIT, USAN, USPATFULL, VETU
 (*File contains numerically searchable property data)
 Other Sources: EINECS**
 (**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1629 REFERENCES IN FILE CA (1967 TO DATE)
 36 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 1634 REFERENCES IN FILE CAPLUS (1967 TO DATE)
 10 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

ACCESSION NUMBER: 2001:885728 CAPLUS
 DOCUMENT NUMBER: 136:11204
 TITLE: Composition for the treatment and/or the prevention of osteoporosis and/or inflammatory joint diseases
 INVENTOR(S): Buchholz, Herwig; Meduski, Jerzy; Frohne, Marcus
 PATENT ASSIGNEE(S): Merck Patent GmbH, Germany
 SOURCE: PCT Int. Appl., 23 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001091734	A2	20011206	WO 2001-EP5753	20010519
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: US 2000-208572P P 20000602
 AB Compns. and pharmaceutical compns. are described which comprise: a component A comprising one or more flavonol glycosides, a component B comprising one or more tetrahydrofolic acid compds., a component C comprising one or more calcium supplements, and a component D comprising one or more magnesium supplements. Methods of using such compns. and pharmaceutical compns. to treat and/or prevent osteoporosis and/or an inflammatory joint disease are also described. An oral formulation contained **isoquercetin** 500 mg, Ca 5-methyltetrahydrofolate 800 .mu.g, Ca citrate tetrahydrate 4000 mg, and Mg chloride hexahydrate 3000 mg.

IT 58-05-9, 5-Formyltetrahydrofolic acid 134-35-0,
 5-Methyltetrahydrofolic acid 2800-34-2, 10-Formyltetrahydrofolic acid 3432-99-3, 5,10-Methylenetetrahydrofolic acid 10360-12-0, 5,10-Methenyltetrahydrofolic acid 139418-88-5
 , L-Glutamic acid, N-[4-[(2-amino-1,4,5,6,7,8-hexahydro-5-methyl-4-oxo-6-pteridinyl)methyl]amino]benzoyl]-, calcium salt
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (compn. for the treatment and/or the prevention of osteoporosis and/or inflammatory joint diseases)

L19 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 2000:314527 CAPLUS
 DOCUMENT NUMBER: 132:326078
 TITLE: Compositions for the treatment and prevention of cardiovascular diseases
 INVENTOR(S): Buchholz, Herwig; Meduski, Jerzy D.
 PATENT ASSIGNEE(S): Merck Patent G.m.b.H., Germany
 SOURCE: PCT Int. Appl., 18 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000025764	A2	20000511	WO 1999-EP7689	19991013
WO 2000025764	A3	20000713		

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ,
DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS,
JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK,
MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ,
TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ,
MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

AU 9964709 A1 20000522 AU 1999-64709 19991013
BR 9914815 A 20010703 BR 1999-14815 19991013
EP 1124548 A2 20010822 EP 1999-952559 19991013

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO

PRIORITY APPLN. INFO.: US 1998-106205P P 19981030
WO 1999-EP7689 W 19991013

AB Compns. comprising one or more active ingredients and, optionally, one or more nutritional substances, solid, liq. and/or semiliquid excipients or auxiliaries, wherein the active ingredients consist of a) a consisting of one or more compds. selected from Me and methylene donors, b) a consisting of one or more Me transporters, and c) a consisting of one or more bioflavonoids are well-suited for the treatment and prevention of transmethylation disorders, preferably cardiovascular diseases such as atherogenic and thrombogenic diseases. A compn. was prep'd. contg. betaine 600, Ca L-5-methyltetrahydrofolate 0.5, and isoquercetin 500 mg.

IT 58-05-9 117-39-5, Quercetin 134-35-0
, 5-Methyltetrahydrofolic acid 2800-34-2, 10-
Formyltetrahydrofolate 3432-99-3 10360-12-0
139418-88-5, L-Glutamic acid, N-[4-[(2-amino-1,4,5,6,7,8-
hexahydro-5-methyl-4-oxo-6-pteridinyl)methyl]amino]benzoyl]-, calcium salt
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(compns. for treatment and prevention of cardiovascular diseases)

L19 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1995:491327 CAPLUS

DOCUMENT NUMBER: 122:281655

TITLE: Preclinical efficacy evaluation of potential
chemopreventive agents in animal carcinogenesis
models: methods and results from the NCI
Chemoprevention Drug Development Program

AUTHOR(S): Steele, Vernon E.; Moon, Richard C.; Lubet, Ronald A.;
Grubbs, Clinton J.; Reddy, Bandaru S.; Wargovich,
Michael; McCormick, David L.; Pereira, Michael A.;
Crowell, James A.; et al.

CORPORATE SOURCE: DCPC, National Institutes of Health, Bethesda, MD,
20892, USA

SOURCE: J. Cell. Biochem. (1994), (Suppl. 20), 32-54
CODEN: JCEBD5; ISSN: 0730-2312

DOCUMENT TYPE: Journal

LANGUAGE: English

AB In the NCI, Chemoprevention Branch drug development program, potential chemopreventive agents are evaluated for efficacy against chem. carcinogen-induced tumors in animal models. This paper summarizes the results of 144 agents in 352 tests using various animal efficacy models. Of these results, 146 were pos., representing 85 different agents. The target organs selected for the animals model are representative of high-incidence human cancers. The assays include inhibition of tumors induced by MNU in hamster trachea, DEN in hamster lung, AOM in rat colon (including inhibition of AOM-induced aberrant crypts), MAM in mouse colon, DMBA and MNU in rat mammary glands, DMBA promoted by TPA in mouse skin, and OH-BBN in mouse bladder. The agents tested may be classified into various pharmacol. and chem. structural categories that are relevant to their chemopreventive potential. These categories include antiestrogens, antiinflammatories (e.g., NSAIDs), antioxidants, arachidonic acid metab.

inhibitors, GST and GSH enhancers, ODC inhibitors, protein kinase C inhibitors, retinoids and carotenoids, organosulfur compds., calcium compds., vitamin D3 and analogs, and phenolic compds. (e.g., flavonoids). The various categories of compds. have different spectra of efficacy in animal models. In hamster lung, GSH-enhancing agents and antioxidants appear to have high potential for inhibiting carcinogenesis. In the colon, NSAIDs and other antiinflammatory agents appear particularly promising. Likewise, NSAIDs are very active in mouse bladder. In rat mammary glands, retinoids and antiestrogens (as would be expected) are efficacious. Several of the chems. evaluated also appear to eb promising chemopreventive agents based on their activity in several of the animal models. Particularly, the ODC inhibitor DFMO was active in the colon, mammary glands, the bladder models, while the dithiolthione, oltipraz, was efficacious in all the models listed above (i.e., lung, colon, mammary glands, skin, and bladder).

IT

58-05-9, Folinic acid 117-39-5, Quercetin

RL: BAC (Biological activity or effector, except adverse); THU
(Therapeutic use); BIOL (Biological study); USES (Uses)

(preclin. efficacy evaluation of potential cancer chemopreventive agents in animal carcinogenesis models)

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L20 ANSWER 6 OF 14 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1998:323144 CAPLUS
 DOCUMENT NUMBER: 129:12752
 TITLE: Treating Alzheimer's disease with folate, vitamin B12, organic nitrates, and ACE inhibitors or angiotensin II antagonists
 INVENTOR(S): Smith, Anthony David; Jobst, Kim Anthony
 PATENT ASSIGNEE(S): Bristol-Myers Squibb Co., USA
 SOURCE: PCT Int. Appl., 48 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9819690	A1	19980514	WO 1997-US20021	19971104
W:	AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
US 6008221	A	19991228	US 1997-959035	19971028
AU 9852442	A1	19980529	AU 1998-52442	19971104
AU 719290	B2	20000504		
EP 951293	A1	19991027	EP 1997-947335	19971104
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI			
JP 2001504104	T2	20010327	JP 1998-521674	19971104
US 6127370	A	20001003	US 1999-435804	19991108
PRIORITY APPLN. INFO.:			US 1996-30642P	P 19961106
			US 1997-959035	A3 19971028
			WO 1997-US20021	W 19971104

AB A method is provided for treating occlusive vascular disease or Alzheimer's disease, wherein the patient has at least moderately elevated blood levels of homocysteine and at least moderately reduced blood levels of folate and vitamin B12, wherein the patient is treated with folic acid, a folate or a deriv. thereof, and optionally vitamin B12, and optionally an org. nitrate such as isosorbide mononitrate or dinitrate, or an ACE inhibitor or an angiotensin II antagonist, or a NEP/ACE inhibitor or a combination of two or more of the above.
 IT 58-05-9, Leucovorin 107-43-7, Betaine 134-35-0
 2800-34-2, 10-Formyltetrahydrofolate 3432-99-3
 10360-12-0
 RL: BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (treating Alzheimer's disease with folate, vitamin B12, org. nitrates, and ACE inhibitors or angiotensin II antagonists)

L20 ANSWER 7 OF 14 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1997:761704 CAPLUS
 DOCUMENT NUMBER: 128:45595
 TITLE: Method for serum-free culture of human vascula